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INUILIOUS INSECTS OF 1897.

Sir.—At the close of each year a note of the chief insect infestations that have appeared is sometimes thought of interest, and I therefore venture to submit the following observations in case they should be approved for insection:

The kinds of insect invitors to agricultural and fruit crops, and likewine to forest trees, regarding which enquires have been sent me interest to the control of the

extracrdinarily Long-horned beetle, known as the "Finberman" incomed mines, where they have been brought in magget state in imported timber.

Elm bark beetles (an important pest) have been receiving attention. Attacks of leafage caterpillars whether to that of Oaks or other trees have been bad in some instances locally, but not so severe generally as in the two preceeding years, when the long drought favoured developement of acterpillars and kept back that of leaves. An attack of a kind of soft "Scale insect" *Cyptococus fagi, which covers trunks of Beech trees with a white felt-like secretion, and is both more injurious and more prevalent than is generally known of, was brought forward.

Amongst special attacks, that of Warble fly to cattle was as usual much before the public, notwithstanding that the practical work of large numbers of our best known Cattle Owners, Farmers, and Veterinary Surgeons for years back, have shown that it can with little trouble, and hardly any cost, be thoroughly kept in check. The Deer Forest Fly furnished observations, of some interest scientifically, as to abortive development or injured presence of wings in the female.

Locusts have again been found in large numbers, in the "Alfalfa." or Lucerne Hay, imported from the Buenos Ayres district of South America, and in one instance it was reported to me that three horses of one proprietor fed on the infested hay fell ill, but recovered on discontinuance of the fodder containing locusts, and (in one case) also with treatment. The cows were not affected by the same fodder.

**Amongst house insects, the "German Cockroach" is establishing itself so widely that it needs attention. It is distinguishable by being much smaller than our common kind, and of a yellowish or brownish colour, striped with darker brown.

The very beneficial insects, the "Lady-bird beetles," appeared in such great numbers, in various places, that they call for a word to note that it is not they, but the Aphides or Plant Lice, which they come to destroy, which are th

(so far as is possible) being cleared, although Hop-growers know their value.

Amongst crop infestations not caused by true insects, Tulip-root to cats, was more than usually prevalent, and also stem sickness in clover was observed, both caused by Stem Eclworms. The same kind of elworm (which for the first time recorded in England) was noticed in 1896, in Onions, was then attended to and is checked.

It may be of interest to add relatively to natural helpers in checking increase of the very destructive "Shot-borer" beetles mentioned above, that towards the middle of August the stems of the Plums were observed to be enormously infested with Acor' or Mites. On submitting these to the skilled Arachnologist, Mr. Albert Michael, he pronounced them to be the Oribata lapidaria, a species which feeds chiefy on lichens and minute fungi, and, as a great part of the food of the Shot-borers consists of a coating of peculiar fungoid growth which covers their cells and to some degree their passages, it may well be that the fungus-cating mites are the best helpers we could have.

Besides the above observations on infestations of insects or insect allies, much other communication and enquiry was sent regarding less important attacks, and matters connected with prevention and remedy, and it is satisfactory to find that there is a steady increase generally in serviceable attention to the subject, as well as in the help available under the direction of the Committees of Technical Institutions in various Counties.

Yours &c.,

Torrington House, **Allowarn** A. **Armann**.

Torrington House: Elemnor a. armerod J. E. S.
St. Albans, December 16th, 1897.

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